

SUMMARY OF SUBCOMMITTEE MEETING

DATE: July 17, 2002
TO: Ross Dunfee, Steering Committee Chairman
Tony Barrett, Department of Ecology
COPY: Stormwater Manual Subcommittee Members and Consultant Team
FROM: Jim St. John, DEA and Dave Moss, Tt/KCM
SUBJECT: **Summary of Stormwater Manual Subcommittee Meeting**
Moses Lake Conference Center
July 11, 2002 9:00 am – 3:00 pm
PROJECT: EASTERN WASHINGTON STORMWATER MANAGEMENT
Stormwater Management Technical Manual *and*
Model Municipal NPDES Phase II Stormwater Program

Subcommittee Meeting Attendees:

Jim St. John – David Evans and Associates	Nancy Aldrich – City of Richland
Jocelyne Gray – JUB Engineers	Steve Hansen – City of Spokane
Michelle Brich – HBA/TriCities	Dave Kliewer – JUB Engineers
Tony Schouviller – Benton County	Beth Kochur – HDR
Max Linden – City of Yakima	Michael Hepp – Ecology
Karen Dinicola – Ecology	Don Gatchalain – Yakima County
Larry Pearson – CRAB	Jim Harakas – Geo Engineers
Steve King – RH2 Engineering	Dave Moss – TetraTech/KCM
Gary Beeman – WSDOT	Gary Nelson – Spokane County
Ryan Lyyski – City of Ellensburg	John Hohman – Spokane County
Bob Newman – USFWS	Gloria Mantz – Spokane County
Tim Fife – Franklin County	Colleen Little – Spokane County
Bill Moore – Ecology	Bob Alberts – City of Pasco
Steve Worley – Spokane County	Greg Lahti – WSDOT

PURPOSE OF MEETING:

This meeting was held to gather the core subcommittee members and at-large members for:

- Discuss Updated Production Schedule; Review Major Issue Summary
- Consider approval of Issue Paper 2 (Flow Control), Issue Paper 3 (Drywells), and Issue Paper 4 (Water Quality Design Storms); review Issue Paper 5 (Infiltration Testing and Rates)
- Third review of Chapter 2 (Core Elements)
- Discuss Ecology's additional revisions to Chapter 7 (Construction SW Pollution Prevention)
- Fourth review of Chapter 4 (Hydrologic Analysis and Design)

AGENDA FOR THIS MEETING:

1. Brief review of June 27 Meeting
2. Updated Schedule; Review status of Key Issues
3. Issue papers and redevelopment discussion
4. Issue Paper 5 – Infiltration Rate presentation by Jim Harakas
5. Review Chapter 2 – Core Elements (review in conjunction with Issue Papers and Ecology input)
6. Working lunch (15 minute break)
7. Review Chapter 7 – Construction SW Pollution Prevention (moved earlier as priority for Chapter review)
8. Review Chapter 4 – Hydrologic Analysis and Design
9. Review Chapter 5 – Detention and Infiltration Design
10. Next meeting agenda; other pertinent topics

BRIEF SUMMARY OF PROCEEDINGS:

1. DEA was requested to revise and post revised minutes from June 13.
2. Review of Previous Minutes from June 27 – Karen Dinicola had the following significant comments:
 - A. Expand discussion of Issue Papers 2 & 4 in Item 6.
 - B. Add to Item 6 that issue papers must have clear discussion and steps leading to justification with scientific documentation.
 - C. There were additional minor comments. The minutes will be revised and reissued.
3. Discussed a possible schedule for final edits with the full manual due to Ecology on August 9. Entire subcommittee wants to see final formatted manual before printing. Decided to review schedule at end of meeting and see what issues and reviews remain.

4. Discussed location of thresholds:

- A. They are not currently in manual or model program.
- B. They were planned to be in Phase 2 permit.
- C. Bill Moore said Ecology has not started draft language for permit.
 - 1) Some regulatory thresholds are in permit, such as 1 acre.
 - 2) Technical thresholds should be in the manual, such as:
 - 5,000 SF PGIS for certain water quality BMPs, OR
 - 5,000 SF Redevelopment
- D. Steve King said this is a reversal from non-regulatory manual.
- E. Bill Moore said the reason is that the manual is for many permits. NPDES Phase 2 has the 1 acre threshold. UIC regulations or the Industrial Permit don't have thresholds.
- F. Michelle Brich was concerned about 5,000 SF redevelopment threshold being new and lower standards. Bill said this wasn't a lower threshold. For most projects, the manual isn't referred to unless the 1 acre threshold of the NPDES Phase 2 permit is crossed.
- G. Bill stated that manual BMPs work on presumptive compliance with water quality standards.

5. Discussion of Chapter 2:

- A. Most people had reviewed the version of the chapter edited by DEA and posted on July 8. Karen Dinicola handed out a revised version with additional edits by Ecology that had been posted late the night before but not reviewed by anyone. The July 8 posted version was reviewed with cross-comparison to the 7/11 Ecology version. The following is only a brief summary of the major comments and points of discussion.
- B. Karen and Bill noted that Chapter 1 should have all the regulatory language and reason for using manual. This should not be in Chapter 2. When reviewing Chapter 2, assume the manual would be used become some regulation requires it.
- C. Karen added two items to each core element, which the subcommittee liked. They are the "Objective" statement as to why the Core Element is important, and the "Applicability to Dry Wells" statement.
- D. There was a lengthy discussion regarding road maintenance exemptions – i.e., discussion of what change in surfacing should trigger requirements. The subcommittee decided that the trigger should be the major investment was made which is when the road was upgraded to an asphalt (or concrete) surface. Even though Bituminous Surface Treatment (BST) or chip seal is impervious, it is commonly installed by maintenance crews and reduces dust and particulate pollution common on dirt or gravel roads.
- E. In summary the subcommittee decided change from dirt/gravel or BST to asphalt (or concrete) is redevelopment and upgrade from dirt/gravel to BST is exempt from redevelopment.
- F. There was a discussion of redevelopment on pages 2 & 3 of the Ecology's July 11 version - settled on PGIS and threshold Section 2 only. Deleted threshold Section 1 for draft manual - applicability wasn't clear. Moved bullet regarding change in use to advisory thresholds in middle of page.

- G. Core Element 4: “Discharge onto a rock pad or other system...” in Supplemental Guidelines, first bullet on page 2-8 of Ecology’s July 11 version, was discussed and changed to “discharged in a manner that disperses the flow.” Karen added applicability to wetlands section - subcommittee to review and comment next meeting.
 - H. Core Element 5: Add high-use intersection area diagram. Clarify PGIS roofs are uncoated galvanized metal. Guideline text and requirements have been revised. Subcommittee to review and comment next meeting.
 - I. Core Element 6: Guidelines require long-duration winter storm. Gary Nelson requested changing long duration storm to design storm so Spokane County’s Type 2 Method can be used. Exemption and guideline text and requirements have been revised. Subcommittee to review and comment next meeting.
 - J. Optional Guidance #1: Delete second sentence. Communities have resources to determine length of bonding.
 - K. Optional Guidance #3: Delete statement requiring legal notice. Communities want to refer to local requirements.
 - L. New Table 2A: Karen revised former advisory threshold table to include drywell threshold stated in the core elements. Subcommittee to review and comment next meeting.
 - M. New Figure 2A for drywells. Subcommittee to review and comment next meeting.
 - N. Karen said posted version of Chapter 2 is not current and it will be reposted on Monday. (done July 15.)
 - O. Steve Worley made an acceptable recommendation to change focus from discussing issue papers to discussing recommendations and edits in the manual. All issue papers are now complete.
6. Jim Harakas presented soil characterization and presumptive infiltration rates.
- A. Bob Alberts suggested using Benton County Manual; Franklin County uses this manual. Also ask Steve Plummer what they do in Kennewick.
 - B. Minimum infiltration rate of 10 inches per hour was discussed.
 - C. Discussion of Appendix B in Jim's handout:
 - 1) Item 7 - Should professional engineer sign or geotechnical engineer? - decide to change wording so either are acceptable.
 - 2) Item 5 - Delete limited and allow the professional to determine what is appropriate for the situation.
 - D. Steve King concerned about low infiltration rates, and overestimating infiltration rates. There will be further review of the presumptive rates, and a jurisdiction can not allow their use, if they so choose.
 - E. Decide to incorporate Jim Harakas' changes to Chapter 5 with a text box soliciting comments.
7. Karen discussed Chapter 7 regarding Soil Stabilization
- A. Discussed basing stabilization requirement on probability of 0.25 inches of rain.
 - B. Seasonal limitations – uncovered working window may vary: per region and per wet & dry seasons.
 - C. Karen said 0.25 in. was selected because that is the amount that will generate runoff from construction site.

- D. Greg suggested that Mel look at rainfall data to determine probabilities.
- 8. Brief discussion regarding Dust Control BMPs:
 - A. If there is a local air quality authority, follow their standards.
 - B. If there is not a local air quality authority, the manual will have some recommendations.
- 9. Other Chapter 7 review:
 - A. Michelle asked question about requirement for a Certified Professional in Erosion and Sediment Control (CPESC) on page 7-22 - this would raise costs.
 - 1) After group discussion and concurrence from Bill Moore, decided to change wording to “a person qualified in erosion and sediment control design or construction shall be identified...” No definition of qualified will be provided at this time but will recommend licensed engineer or CPESC.
 - B. Section 7.3.3.19 BMP C241 on page 7-120 - Michelle read article regarding national standard of 3,600 cubic feet/acre and requested this be incorporated into BMP. It will be reviewed and the standard may be modified to be more applicable to Eastern Washington rainfall.
- 10. Sarah presented plan for public meetings (open houses) and second newsletter:
 - A. Solicited volunteers for presentation and information stations.
 - B. Solicited points of contact for local groups and organizations.
 - C. Sarah can put items for input on comment forms and in displays.
- 11. The subcommittee discussed schedule for next 2 weeks:
 - A. Chapter 2 – Karen will post next Monday with today's revision.
 - B. Chapter 5 – Revise and post next Friday. DEA to coordinate with Karen & Jim H.
 - C. Chapter 6 – Ecology to prepare dry well flow chart.
 - D. Chapter 4 – Review based on posted version.
 - E. Chapter 1 – Revise and post. DEA to coordinate with Ecology.
- 12. Next Manual subcommittee meeting: 7/25/02
- 13. Chapters 4 & 5 were not reviewed.
- 14. Critical steering committee decision was to delay printing of manual to September and to conduct open houses week of October 14. A steering committee meeting and both subcommittee meetings were planned for August 8.

PRELIMINARY AGENDA FOR NEXT MEETING:

The **next meeting** will be at the Moses Lake Conference Center on **July 25, 2002**, from 9am to 3:00pm. The agenda will include:

- Review of Subcommittee agenda and summary from July 11 meeting
- Review Chapter 2
- Review Chapter 1
- Review Chapter 4
- Review portions of Chapters 5 & 6
- Review latest schedule and status of major issues

<i>The following notes are from the flip charts (created at the meeting) from participant comments:</i>

Comment: a few notes were marked on a couple of flip charts, but they are all included above, so are not repeated again here.